

Notice of Allowability

Application No.

10/651,218

Examiner

Melissa J Koval

Applicant(s)

LEE ET AL.

Art Unit

2851

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Applicant's Response of November 20, 2003.
2. ☒ The allowed claim(s) is/are 1-27, 29 and 30 (now renumbered 1-29).
3. ☒ The drawings filed on 29 August 2003 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Michael Kondoudis on September 10, 2004.

The application has been amended as follows:

In the Claims:

Cancel Claim 28.

Allowable Subject Matter

Claims 1-27, 29 and 30 are allowed.

The following is an examiner's statement of reasons for allowance:

The prior art of record neither shows nor suggests a projection system comprising all of the elements as set forth in claim 1 and particularly the combination of elements as follows: "a rectilinearly reciprocating cylindrical lens array which advances color beams along different paths upon reciprocation, so as to scroll the color beams" and "a light valve which receives the scrolled color beams transmitted by the cylindrical lens array and forms a color image by turning pixels on or off according to the input image signal".

The prior art of record neither shows nor suggests a method of projecting an image comprising all of the steps of claim 29 and particularly the combination of steps as follows: "scrolling the color beams by reciprocating an optical element having a plurality of lens cells arranged to form a plate" and "focusing the color beams onto a light valve and turning pixels of the light valve one of on and off according to a received image signal so as to form a color image".

The prior art of record neither shows nor suggests a projection system comprising all of the elements of claim 30, and particularly the combination of elements as follows: "only one rectilinearly reciprocating cylindrical lens array which advances color beams along different paths upon reciprocation, so as to scroll the color beams" and "a light valve which receives the scrolled color beams transmitted by the cylindrical lens array and forms a color image by turning pixels on or off according to an input image signal".

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Janssen et al. U.S. Patent 6,619,802 B2 teaches multi-stripe scrolling for color projection.

Sudo et al. U.S. Patent Application Publication US 2004/0056824 A1 teaches a stereoscopic image display apparatus and stereoscopic image display system.

Tsikos et al. U.S. Patent Application Publication US 2003/0071123 A1 teaches a method of speckle-noise pattern reduction and apparatus therefor based on reducing

the temporal coherence of the planar laser illumination beam before it illuminates the target object by applying temporal intensity modulation techniques during the transmission of the PLIB towards the target.


Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melissa J Koval whose telephone number is (571) 272-2121. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Nguyen can be reached on (571)272-2258. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MJK


JUDY NGUYEN
PRIMARY EXAMINER